



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
LIU, Yu *et al.*

Appl. No. **10/607,584**

Filed: **27 June 2002**

For: **Improved Methods and
Compositions for Capillary
Electrophoresis (CE)**

Art Unit: To be Assigned

Examiner: To be Assigned

Atty. Docket: 03501.141

**Information Disclosure Statement
Pursuant to 37 C.F.R. § 1.97(b)(1)**

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

This Information Disclosure Statements is being submitted prior to an Initial Office Action. No fee is accordingly believed due for consideration of this Information Disclosure Statement. However, if the Commissioner determines that an additional fee is required in for consideration of this Information Disclosure Statement, the U.S. Patent and Trademark Office is hereby authorized to charge any fee

deficiency, or credit any overpayment, to Deposit Account No. 50-0548 referencing
docket number 3501.122.

The submitted documents are:

AA1	U.S. Patent No. RE37,606	Guttman
AB1	U.S. Patent No. 6,440,284	Dubrow
AC1	U.S. Patent No. 6,436,646	Nikiforov
AD1	U.S. Patent No. 6,410,668	Chiari
AE1	U.S. Patent No. 6,372,353	Karger <i>et al.</i>
AF1	U.S. Patent No. 6,358,385	Madabhushi <i>et al.</i>
AG1	U.S. Patent No. 6,355,709	Madabhushi <i>et al.</i>
AH1	U.S. Patent No. 6,316,201	Nikiforov
AI1	U.S. Patent No. 6,306,273	Wainwright <i>et al.</i>
AA2	U.S. Patent No. 6,274,089	Chow <i>et al.</i>
AB2	U.S. Patent No. 6,235,175	Dubrow <i>et al.</i>
AC2	U.S. Patent No. 6,153,073	Dubrow <i>et al.</i>
AD2	U.S. Patent No. 6,129,826	Nikiforov <i>et al.</i>
AE2	U.S. Patent No. 6,107,044	Nikiforov <i>et al.</i>
AF2	U.S. Patent No. 6,074,542	Dolnik <i>et al.</i>
AG2	U.S. Patent No. 6,068,752	Dubrow <i>et al.</i>
AH2	U.S. Patent No. 6,042,710	Dubrow
AI2	U.S. Patent No. 6,033,546	Ramsey
AA3	U.S. Patent No. 6,001,232	Chu <i>et al.</i>
AB3	U.S. Patent No. 5,989,399	Chu <i>et al.</i>
AC3	U.S. Patent No. 5,976,336	Dubrow <i>et al.</i>
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AE3	U.S. Patent No. 5,958,694	Nikiforov
AF3	U.S. Patent No. 5,948,227	Dubrow
AG3	U.S. Patent No. 5,916,426	Madabhushi <i>et al.</i>

AH3	U.S. Patent No. 5,891,313	Johnson <i>et al.</i>
AI3	U.S. Patent No. 5,846,395	Sarrine <i>et al.</i>
AA4	U.S. Patent No. 5,840,388	Karger <i>et al.</i>
AB4	U.S. Patent No. 5,777,096	Grossman <i>et al.</i>
AC4	U.S. Patent No. 5,741,411	Yeung <i>et al.</i>
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AE4	U.S. Patent No. 5,695,626	Yeung <i>et al.</i>
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AH4	U.S. Patent No. 5,580,016	Sarine
AI4	U.S. Patent No. 5,567,292	Madabhushi <i>et al.</i>
AA5	U.S. Patent No. 5,552,028	Madabhushi <i>et al.</i>
AB5	U.S. Patent No. 5,545,302	Zhu <i>et al.</i>
AC5	U.S. Patent No. 5,534,123	Bashkin <i>et al.</i>
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AH5	U.S. Patent No. 5,421,980	Guttman
AI5	U.S. Patent No. 5,384,024	Moring <i>et al.</i>
AA6	U.S. Patent No. 5,374,527	Grossman
AB6	U.S. Patent No. 5,370,777	Guttman <i>et al.</i>
AC6	U.S. Patent No. 5,364,520	Okuyama <i>et al.</i>
AD6	U.S. Patent No. 5,332,481	Guttman
AE6	U.S. Patent No. 5,310,462	Chen
AF6	U.S. Patent No. 5,292,416	Novotny <i>et al.</i>
AG6	U.S. Patent No. 5,292,372	Swaigood <i>et al.</i>
AH6	U.S. Patent No. 5,264,101	Demorest <i>et al.</i>
AI6	U.S. Patent No. 5,259,939	Chen
AA7	U.S. Patent No. 5,139,630	Chen

AB7	U.S. Patent No. 5,120,413	Chen <i>et al.</i>
AC7	U.S. Patent No. 5,112,460	Karger <i>et al.</i>
AD7	U.S. Patent No. 5,089,111	Zhu <i>et al.</i>
AE7	U.S. Patent No. 5,015,350	Wiktorowicz
AF7	U.S. Patent No. 4,865,706	Karger <i>et al.</i>
AR1	Bean, S.R. <i>et al.</i> (1999) ("SODIUM DODECYL SULFATE CAPILLARY ELECTROPHORESIS OF WHEAT PROTEINS. 1. UNCOATED CAPILLARIES," J. Agric. Food Chem 47(10):4246-4255	
AS1	Ganzler, K. <i>et al.</i> (1992) "High-Performance Capillary Electrophoresis of SDS-Protein Complexes Using UV-Transparent Polymer Networks," Anal. Chem. 64:2665-2671	
AT1	Hjerten, S. <i>et al.</i> (1989) "HIGH-PERFORMANCE ELECTROPHORESIS OF ACIDIC AND BASIC LOW-MOLECULAR-WEIGHT COMPOUNDS AND PROTEINS IN THE PRESENCE OF POLYMERS AND NEUTRAL SURFACTANTS," J. LIQUID CHROMATOG. 12: 2471-2499	
AR2	http://neo.pharm.hiroshima-u.ac.jp/ccab/2nd/mini_review/mr130/dolnik.html	
AS2	http://www.poco.phy.cam.ac.uk/teaching/A_Donald/Gels_and_Network.htm	
AT2	Kemp, G. (1998) "CAPILLARY ELECTROPHORESIS: A VERSATILE FAMILY OF ANALYTICAL TECHNIQUES," Biotechnol. Appl. Biochem. 27:9-17	
AR3	Lausch, R. <i>et al.</i> (1993) "RAPID CAPILLARY GEL ELECTROPHORESIS OF PROTEINS," J. Chromatogr. 654:190-195	
AS3	Manabe, T. <i>et al.</i> (1998) "SIZE SEPARATION OF SODIUM DODECYL SULFATE COMPLEXES OF HUMAN PLASMA PROTEINS BY CAPILLARY ELECTROPHORESIS EMPLOYING LINEAR POLYACRYLAMIDE AS A SIEVING POLYMER," Electrophoresis 19:2308-16	
AT3	Schwartz, H. <i>et al.</i> ("Separation of Proteins and Peptides by Capillary Electrophoresis: Application to Analytical Biotechnology," http://www.beckman.com/Literature/BioResearch/727484.pdf	
AR4	Wu, D. <i>et al.</i> (1992) ("SODIUM DODECYL SULFATE- CAPILLARY GEL ELECTROPHORESIS OF PROTEINS USING NON-CROSS-LINKED POLYACRYLAMIDE," J. Chromatogr. 608:349-356	

AS4 Zhang, Y. *et al.* (1996) "SEPARATION OF MYOGLOBIN MOLECULAR MASS
MARKERS USING NON-GEL SIEVING CAPILLARY ELECTROPHORESIS," J.
Chromatog. A 744:249-257

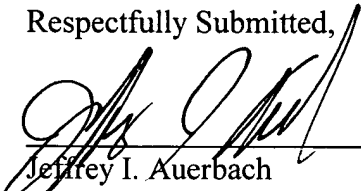
The submission of the listed and appended documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Applicant respectfully requests that the documents listed on the accompanying Form PTO 1449 be considered and made of record in the present application. Applicant further requests that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

While the listed references are considered relevant to the prosecution of the present application, it is submitted that the references, either alone or in combination, do not detract from the patentability of the claimed invention.

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Respectfully Submitted,


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	AA1	RE37,606	03/26/2002	Guttman	204	455	08/05/1999
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	AC1	6,436,646	08/20/2002	Nikiforov	435	6	11/28/2000
	AD1	6,410,668	06/25/2002	Chiari	526	238.23	08/11/2000
	AE1	6,372,353	04/16/2002	Karger <i>et al.</i>	428	447	11/23/1998
	AF1	6,358,385	03/19/2002	Madabhushi <i>et al.</i>	204	451	01/11/1999
	AG1	6,355,709	03/12/2002	Madabhushi <i>et al.</i>	524	104	10/15/1998
	AH1	6,316,201	11/13/2001	Nikiforov	435	6	06/21/2000
	AI1	6,306,273	10/23/2001	Wainwright <i>et al.</i>	204	454	04/13/1999

U.S. Patents Nos. (and (Zhu *et al.*), FOREIGN PATENT DOCUMENTS

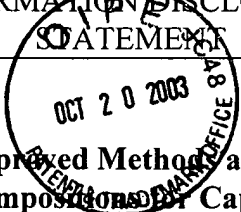
		Document Number	Date (mm/dd/yyyy)	Country	Class	Sub- Class	Translation Yes/No
	AL1						
	AM1						
	AN1						

OTHERS, including Author, Title, Date, Pertinent Pages, etc.

	AR1	Bean, S.R. <i>et al.</i> (1999) ("SODIUM DODECYL SULFATE CAPILLARY ELECTROPHORESIS OF WHEAT PROTEINS. 1. UNCOATED CAPILLARIES," J. Agric. Food Chem 47(10):4246-4255
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	AA2	6,274,089	08/14/2001	Chow <i>et al.</i>	422	101	06/08/1998
	AB2	6,235,175	05/22/2001	Dubrow <i>et al.</i>	204	453	10/02/1998
	AC2	6,153,073	11/28/2000	Dubrow <i>et al.</i>	204	453	08/11/1999
	AD2	6,129,826	10/10/2000	Nikiforov <i>et al.</i>	204	450	05/11/1999
	AE2	6,107,044	08/22/2000	Nikiforov <i>et al.</i>	435	6	06/16/1999
	AF2	6,074,542	06/13/2000	Dolnik <i>et al.</i>	204	454	06/03/1999
	AG2	6,068,752	05/30/2000	Dubrow <i>et al.</i>	204	604	08/11/1999
	AH2	6,042,710	03/28/2000	Dubrow	204	454	05/11/1999
	AI2	6,033,546	03/07/2000	Ramsey	204	603	09/15/1998

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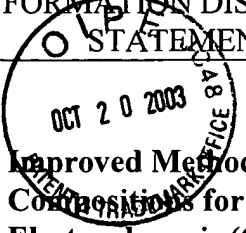
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	AL2						
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	AR2	http://neo.pharm.hiroshima-u.ac.jp/ccab/2nd/mini_review/mr130/dolnik.html
	AS2	http://www.poco.phy.cam.ac.uk/teaching/A_Donald/Gels_and_Network.htm
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	AA3	6,001,232	12/14/1999	Chu <i>et al.</i>	204	455	09/04/1996
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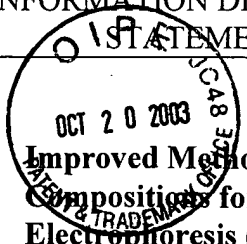
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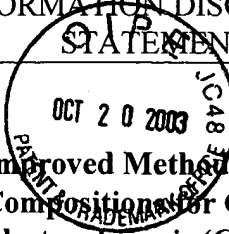
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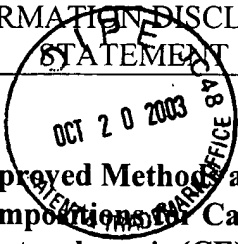
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Filing Date: 27 June 2003

Group Art Unit: Not Assigned
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U.S. PATENT DOCUMENTS

Examiner's Initial		Patent Number	Date (mm/dd/yyyy)	Name	Class	Sub-Class	Filing Date (mm/dd/yyyy)
	AA7	5,139,630	08/18/1992	Chen	204	180.1	05/31/1991
	AB7	5,120,413	06/09/1992	Chen <i>et al.</i>	204	180.1	05/31/1991
	AC7	5,112,460	05/12/1992	Karger <i>et al.</i>	204	182.8	10/13/1989
	AD7	5,089,111	02/18/1992	Zhu <i>et al.</i>	204	180.1	09/27/1990
	AE7	5,015,350	05/14/1991	Wiktorowicz	204	180.1	11/06/1989
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		Document Number	Date (mm/dd/yyyy)	Country	Class	Sub-Class	Translation Yes/No
	AL6						
	AM6						
	AN6						

OTHERS, including Author, Title, Date, Pertinent Pages, etc.

	AR6	
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